



FIG. 2.—Profile along the line A B.

easter slopes forests flourish for only a short distance below the 10,000-foot timber line. Then comes chaparral, and finally the desert. The latter extends far beyond the borders of California to the outlying ranges of the Rockies.

Thus topography and winds are the controlling factors in the distribution of forests. They make most of the Pacific coast a region of winter rains and summer droughts, and, away from the coast, limit the forests to the higher altitudes.

AN IMPORTANT OLD LOCAL WEATHER RECORD FOR PHILADELPHIA, PA.

Mr. John W. Dulles, President of the Insurance Company of the State of Pennsylvania, which was founded in 1794, states that the company has what appears to be a continuous and admirable record of the temperature, wind, and weather at Philadelphia, kept up for over 50 years, beginning with May, 1806. The following table is sent by Mr. Dulles as a sample page. Without having any further detailed information about this record, we need only call attention to the fact that whenever such records have been published in full,

with appropriate notes and discussion, they have been recognized as important contributions to our knowledge of local climatology, and have often been made the basis of further studies relative to insurance, crops, hygiene, and other practical matters. The local climatology is a matter that interests respective cities and States, and there is no propriety in the idea that the Federal Government or the general Weather Bureau should undertake publications that have mostly a local interest. Two famous records of this kind were published by the Smithsonian Institution in order to show how such work should be done. Possibly some great work of the kind may be encouraged by the Carnegie Institution, but we ought more properly to look to the wealthy men of Philadelphia to support its own local scientific institutions, such as the famous American Philosophical Society, founded by Benjamin Franklin in 1744. This society has always shown a great interest in meteorology, and should be honored by the gift of funds for publishing and discussing such a fine, long series of records as that which is now locked up in the archives of the insurance company.

January, 1807.	Wind.			Weather.			Degrees of heat and cold.				Remarks.
	A. M.	M.	P. M.	A. M.	M.	P. M.	A. M.	M.	P. M.	Mean.	
1.....	n.	n.	s.	Clear	Clear	Clear	23	24	25 $\frac{1}{4}$	24	Sharp frost.
2.....	sw.	sw.	sw.	Cloudy	Cloudy	Cloudy	26 $\frac{1}{2}$	28 $\frac{1}{4}$	30	28 $\frac{1}{4}$	Frost.
3.....	sw.	sw.	sw.	Fling clouds ..	Light clouds ..	Fling clouds ..	32 $\frac{1}{2}$	33 $\frac{1}{2}$	34 $\frac{1}{2}$	33 $\frac{1}{2}$	Last night rained a little and froze this mornen, which rendered walken extremely dangerous.
4.....	sw.	sw.	sw.	Clear	Clear	Clear	32	33	34	33	
5.....	sw.	s.	sw.	do	Light clouds ..	34	35 $\frac{1}{2}$	38 $\frac{1}{2}$	35 $\frac{1}{2}$		
6.....	sw.	w.	w.	Hazey	Fling clouds ..	Clear	41	42	42	41 $\frac{1}{2}$	
7.....	sw.	sw.	w.	Cloudy	Cloudy	do	40	40 $\frac{1}{2}$	41	40 $\frac{1}{2}$	
8.....	w.	hw.	hw.	Clear	Fling clouds ..	37	37	37 $\frac{1}{2}$	37		
9.....	sw.	sw.	sw.	do	Clear	33	33 $\frac{1}{2}$	36	34		
10.....	s.	s.	s.	Cloudy	Cloudy	Cloudy	33 $\frac{1}{2}$	34 $\frac{1}{2}$	36	34 $\frac{1}{2}$	
11.....	sw.	w.	w.	do	Fling clouds ..	Fling clouds ..	36	37	37 $\frac{1}{2}$	36 $\frac{1}{2}$	
12.....	n.	hw.	hw.	Clear	Clear	Clear	35	34 $\frac{1}{2}$	34 $\frac{1}{2}$	34 $\frac{1}{2}$	
13.....	hw.	hw.	hw.	Cloudy	Fling clouds ..	do	28	27 $\frac{1}{2}$	27	27 $\frac{1}{2}$	
14.....	sw.	w.	w.	Clear	do	23	23 $\frac{1}{2}$	25 $\frac{1}{2}$	24		
15.....	sw.	sw.	sw.	Cloudy	Cloudy	Cloudy	32 $\frac{1}{2}$	34	35 $\frac{1}{2}$	34	
16.....	nw.	nw.	sw.	Fling clouds ..	Clear	Fling clouds ..	36	37	38 $\frac{1}{2}$	37	
17.....	nw.	nw.	nw.	do	Fling clouds ..	do	32	32 $\frac{1}{2}$	33	32 $\frac{1}{2}$	
18.....	n.	n.	n.	Snow	Snowy	Snowy	32	32	31 $\frac{1}{2}$	31 $\frac{1}{2}$	
19.....	nw.	nw.	w.	Clear	Clear	Clear	21	21 $\frac{1}{2}$	23	21 $\frac{1}{2}$	
20.....	ssw.	sw.	sw.	do	do	do	18 $\frac{1}{2}$	19 $\frac{1}{2}$	22 $\frac{1}{2}$	20	
21.....	wwn.	nw.	nw.	do	do	do	24 $\frac{1}{2}$	26 $\frac{1}{2}$	28	26 $\frac{1}{2}$	
22.....	nw.	nw.	nw.	do	do	do	25 $\frac{1}{2}$	26 $\frac{1}{2}$	28	26 $\frac{1}{2}$	
23.....	ne.	ne.	se.	Cloudy	Fling clouds ..	24 $\frac{1}{2}$	25	27 $\frac{1}{2}$	25 $\frac{1}{2}$		
24.....	sw.	nw.	nw.	do	Cloudy	Cloudy	31	32 $\frac{1}{2}$	34	32 $\frac{1}{2}$	
25.....	w.	nw.	nw.	Clear	Fling clouds ..	Clear	31	31 $\frac{1}{2}$	31	31 $\frac{1}{2}$	
26.....	nw.	nw.	nw.	do	do	do	22	22	22 $\frac{1}{2}$	22	
27.....	ne.	ne.	se.	Hazey	Hazey	Hazey	21	24	27 $\frac{1}{2}$	24 $\frac{1}{2}$	
28.....	s.	w.	se.	Cloudy	Cloudy	Clear	39	41	42 $\frac{1}{2}$	40 $\frac{1}{2}$	Thaw.
29.....	sw.	w.	w.	Light clouds ..	Light clouds ..	do	39 $\frac{1}{2}$	41	42 $\frac{1}{2}$	41	
30.....	ssw.	nw.	sw.	Clear	Clear	do	39 $\frac{1}{2}$	40	41 $\frac{1}{2}$	40 $\frac{1}{2}$	
31.....	ne.	se.	s.	Rainy	Rainy	Rainy	39	40 $\frac{1}{2}$	42	40 $\frac{1}{2}$	This day very wet, afternoon very foggy and dense.

NOTE—Fling clouds = flying clouds.—EDITOR.

RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

H. H. KIMBALL, Librarian.

The following titles have been selected from among the books recently received, as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies. Most of them can be loaned for a limited time to officials and employees who make application for them.

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Biot, [Jean Baptiste].

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Meteorologia generale. 2d edition. xiii, 225, 64 pp. 24° Milano. 1905.

Mont Blanc. Observatoire Météorologique Physique et Glaciaire du Mont Blanc.

Annales. Tome VI. vii, 218 pp. 4°. Paris. 1905.

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Strutt, R[obert] J[ohn].

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RECENT PAPERS BEARING ON METEOROLOGY.

H. H. KIMBALL, Librarian.

The subjoined titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers or other communications bearing on meteorology or cognate branches of science. This is not a complete index of the meteorological contents of all the journals from which it has been compiled; it shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau. Unsigned articles are indicated by a —

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Bacon, Gertrude. The acoustical experiments carried out in balloons by the late Rev. J. M. Bacon. Pp. 5-6.

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Stevenson, John. The chemical and geological history of the atmosphere. Pp. 226-237.

Russell, Alexander. The dielectric strength of air. Pp. 237-276.

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Barus, Carl. Condensation nuclei. Pp. 82-110.

— Differential temperature records in meteorological work. [Abstract of paper by C. H. McLeod and H. T. Barnes.] Pp. 112-113.

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Tamura, S. Tetsu. Recent advances in meteorology and meteorological service in Japan. Pp. 139-144.

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B[orns], H. Rain showers and a new method of rain measurement. [Abstract of article by W. Gallenkamp.] P. 7.

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Todd, Charles. Coldest spring on record in South Australia. Pp. 219-221.

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Moureaux, Th. Résumé de trente années d'observations météorologiques à l'Observatoire de Parc Saint-Maur (1874-1903). Pp. 265-276.

Maillet, Edmond. Sur les grandes crues de la Seine à Paris. Pp. 276-277.

Brunhes, B. and Baldit, A. Sur la dissymétrie de la déperdition électrique en pays de montagne; rôles comparés de l'altitude et du relief. Pp. 286-288.

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Durand-Gréville, E. La loi des grains et des orages. Pp. 4-13.

Guarini, E. Sur l'électricité atmosphérique. Pp. 13-23.

Vregille, Pierre de. La météorologie d'Alexandrie et de Beyrouth. Pp. 33-42.

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Prinz, W. La phosphorescence des éclairs. [Note.] P. 564.

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— Dines über einige Ergebnisse der Drachenanstiege an der Westküste von Schottland 1904. Pp. 561-562.

— Messungen des Schneefalles in verschiedenen Seehöhen am Montblanc. Pp. 563.

Bornstein, R[ichard]. Ueber die Verteilung von Luftdruck und Wind unter Einwirkung von örtlicher Erwärmung. Pp. 563-565.

MacDowall, Alexander B. Sonnenflecken und Luftdruck. Pp. 565-566.

Schubert, J. Wald und Niederschlag in Schlesien. Pp. 566-570.

— Prohaska über den Einfluss der Oertlichkeit auf die Gewitterbildung und auf die Zugrichtung. Pp. 570-573.

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Exner, F. M. Ueber Druck und Temperatur bewegter Luft. Pp. 574-575.

Hann, J[ulius]. Gewitter in Finnland. Pp. 575-576.

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Bebber, W[ilhelm] J[akob] van. Barometer und Wetter. Pp. 40-41.

Hann, J[ulius]. Kämtz über das Barometer als Wetterglas. Pp. 41-42.

— Regenfall auf Grenada. P. 42.

— Regenfall auf den Solomoninseln. Pp. 42-43.

— Meteorologische Beobachtungen in Belize (British Honduras), 1902. P. 43.